

EXHIBIT 29-1 (EL-1)

Elizabeth G. Lack

PRESENT POSITION

Biologist Western EcoSystems Technology, INC. 2003 Central Ave, Cheyenne, WY 82001.
Telephone: (307) 634-1756. Fax: (307) 637-6981. Email: elack@west-inc.com

PREVIOUS POSITIONS

1998-1999 NEPA Specialists, SWCA Inc. Environmental Consultants, Salt Lake City, UT
1995-1997 Operations Manager, Brightwood Software Development Corp., Cheyenne, WY
1990-1994 Environmental Scientist/Assistant Project Manager, Woodward-Clyde Consultants, Denver, CO
1989-1990 Laboratory Technician, Hunter/ESE Environmental Laboratory, Englewood, CO
1986, 1988 Forest Technician, U.S.D.A. Forest Service, Laramie, WY
1987 Research Assistant, Colorado State University, Ft. Collins, CO

EDUCATION

B.S. 1988 Colorado State University Forestry, Minor Biology
Currently taking coursework at the University of Wyoming toward a Master Degree in Botany

ADDITIONAL TRAINING

Training on Identification of *Spiranthes diluvialis* and *Gaura neomexicana* spp. *Coloradensis* - 2000
8 Hour HAZWOPER Refresher - 2000
Wetland Delineation Course – Wetland Training Institute - 2000
Endangered Species Act – Biological Assessment Workshop - 1999
Black-Footed Ferret Survey Techniques Workshop - 1998
Short Course on Wetlands Issues in Resources Development - 1993
Dale Carnegie Course graduate - 1992
Technical Writing of NEPA Documents, Shipley Associates - 1991
40Hour Hazardous Waste Worker Basic Health and Safety Training – 1990

SPECIALTY AREAS

Ms. Lack has over 8 years of professional experience in the environmental consulting field. She has expertise in environmental compliance and permitting, biological surveys and research, and ecological risk assessment. Her clients have included both government and industry sectors. Ms. Lack is experienced in a variety of field survey techniques for both vegetation and wildlife, and she has authored numerous technical documents and reports.

Ms. Lack's work in environmental compliance has included projects under the National Environmental Policy Act (NEPA), the Endangered Species Act, and the Clean Water Act. She has prepared a number of Environmental Assessments and Environmental Impact Statements for NEPA compliance for a variety of projects in the western United States including transportation, pipeline, utility line, mining, oil and gas leasing and development, and resource planning projects. Ms. Lack is experienced in all phases of the EIS process including baseline data collection, impact analysis, project description, response to public comment, team and agency coordination, and technical writing and editing. She has also worked with federal agency personnel in drafting decision documents for NEPA projects. In addition to her work experience, Ms. Lack has participated in a training course on the technical writing of NEPA documents. Ms. Lack's Endangered Species Act experience includes preparation of several Biological Assessments for federally-listed threatened and endangered species for transportation and mining projects in Montana, and development projects in Utah. She has conducted surveys for threatened, endangered, and sensitive plant and animal species and has been formally trained on black-footed ferret survey techniques and the identification of *Spiranthes diluvialis* and *Gaura neomexicana* spp. *coloradensis*. Ms. Lack's Clean Water Act experience has been related to Section 404 permitting for the discharge of dredged or fill material into wetlands. She has delineated jurisdictional wetlands, which are regulated under Section 404, and has assisted in the identification and monitoring of wetland mitigation sites.

Ms. Lack's environmental permitting experience includes obtaining federal right-of-way permits and permit amendments for wireless telecommunication sites in Wyoming and Colorado, and an interstate pipeline in Utah,

WEST, Inc.

Colorado, and New Mexico. She has also conducted a permit reconnaissance for federal, state, and local permits for a co-generation facility in Colorado and mine operation in Nevada.

Much of Ms. Lack's work experience has been in the field, conducting a variety of biological surveys. She is knowledgeable in the use of many survey techniques for vegetation and wildlife. She has participated in projects using line transect techniques, quadrat/plot methods, point count, and Releve techniques in riparian, grassland, and forest habitats in Wyoming, Utah, Colorado, and Nebraska. She is also experienced at vegetation mapping using infrared, black and white, and color aerial photography and ground-truthing. Ms. Lack has participated in surveys using Sherman live-traps, mist-nets, and tape-playback methods in Colorado and Utah. In addition to her field experience, Ms. Lack has also conducted literature research for a variety of projects, including a comprehensive literature review on habitat management methods for the whooping crane, least tern, and piping plover.

Ms. Lack is also experienced in the assessment of ecological risk at hazardous waste sites under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA). These projects involve the use of both ecological and analytical skills. She has assisted in the preparation of several ecological risk assessments for projects involving military lands and other contaminated sites (mine wastes and petroleum products) in the western United States, including Alaska. Her experience includes sample collection (including soils, vegetation, bird, and mammal samples), data analysis, site description, identification of key receptor species and chemicals of concern, exposure pathway analysis, research for and preparation of toxicity profiles, and risk characterization.

PROFESSIONAL ORGANIZATION MEMBERSHIPS

National Association of Environmental Professionals
Member, Wyoming Native Plant Society

RELEVANT WORK EXPERIENCE

Environmental Compliance

NEPA

2000-Ongoing	Wyoming Department of Transportation. Conducted a public scoping meeting for, and currently preparing an Environmental Assessment for the Pfisterer-Dell Creek highway reconstruction project near Bondurant, Wyoming.
2000	URS Woodward-Clyde. Prepared vegetation impact analysis section for the Moran Junction to Dubois Highway Reconstruction Project Environmental Impact Statement.
1999	Wyoming Department of Transportation. Prepared wildlife section, including baseline information and impact analysis, for an Environmental Assessment for an avalanche control project, Teton County, Wyoming.
1998	Questar Gas Company. Prepared an Environmental Assessment for a natural gas pipeline from Fremont Pass to Panguitch, Garfield County, Utah, for the Bureau of Land Management, Kanab Resource Area.
1998	Bureau of Land Management, Utah State Office. Prepared a Record of Decision and Finding of No Significant Impact for the <i>Mid-America Rocky Mountain Loop Pipeline Project Environmental Assessment</i> .
1998	Bureau of Reclamation, New Mexico. Served as technical editor for the <i>Elephant Butte Reservoir Resource Management Plan Environmental Impact Statement</i> .
1998	Utah Department of Transportation and Federal Highway Administration. Prepared an Environmental Assessment for the West Valley City Intermodal Center, Utah.
1994	Federal Emergency Management Agency. Prepared an Environmental Assessment for the acquisition and relocation of the flood-prone portion of the City of Grafton, Illinois.
1994	Western Area Power Administration. Assisted with the prepared an Environmental Assessment for a 115-kV transmission line from Gering to Stegall, Nebraska.

- 1993-1994 Zortman and Landusky Mining Companies. Served as vegetation task leader for the *Zortman/Landusky Mine Expansion Environmental Impact Statement* in Montana.
- 1992-1994 U.S.D.A. Forest Service, Ashley and Uinta National Forests, Utah. Served as assistant project manager and biological task leader for the *Western Uinta Basin Oil and Gas Leasing Environmental Impact Statement*.
- 1990-1992 Stillwater PGM Resources. Served as assistant project manager for the third-party *East Boulder Mine Project Environmental Impact Statement* in Montana, including Draft, Final, and Supplemental. Prepared for the U.S.D.A. Forest Service and Montana Department of State Lands.
- 1991 Phillips Petroleum Company. Assisted in the preparation of an Environmental Assessment for San Juan Coal Seam Gas Gathering Project in New Mexico. Prepared for the Bureau of Land Management.
- 1990-1992 Amoco Production Company. Served as assistant project manager for the third-party *HD Mountains Coalbed Methane Gas Project Environmental Impact Statement* in Colorado. Prepared for U.S.D.A. Forest Service and U.S.D.I. Bureau of Land Management.

Endangered Species Act

- 2000 - Ongoing Carter-Burgess and Montana Department of Transportation. Prepare a portion of a Biological Assessment addressing bull trout for the Big Fork highway reconstruction project near Big Fork, Montana.
- 2000 Robert Peccia and Associates and Montana Department of Transportation. Prepared a Biological Assessment for a highway reconstruction project near Broadus, Montana. Included as part of a Biological Resources Report.
- 2000 URS Greiner Woodward-Clyde. Prepared a Biological Assessment for a coal-fired power plant and associated access road and transmission line in Wyoming.
- 1999 Robert Peccia and Associates, Montana Department of Transportation and Federal Highways Administration. Prepared a Supplementary Biological Assessment for bull trout, westslope cutthroat trout, and bald eagle for Highway 2 Columbia Heights to Hungry Horse road improvement project near Columbia Falls, Montana.
- 1999 Carter-Burgess, Montana Department of Transportation, and Federal Highways Administration. Prepared a Biological Assessment for bull trout and westslope cutthroat trout for the Foys Canyon Road improvement project near Kalispell, Montana.
- 1999 Carter-Burgess, Montana Department of Transportation, and Federal Highways Administration. Prepared a Biological Assessment for bull trout and westslope cutthroat trout for the U.S. Highway 93 road improvement project from Somers to Ashley Creek near Somers, Montana.
- 1998 Williams Energy Services. Prepared a *Biological Survey Workplan* identifying all surveys needed to comply with the Endangered Species Act, as well as U.S. Forest Service and Bureau of Land Management regulations for a pipeline project in Utah.
- 1994 Western Area Power Administration. Conducted a field survey of threatened and endangered plant and animal species along a Western Area Power Administration transmission line route in the Colorado Desert from Blythe, California to Parker, Arizona.
- 1992 Las Vegas Water District. Prepared a Biological Assessment of sensitive plant species in Nevada for the Las Vegas Water District for Endangered Species Act compliance.
- 1991 Stillwater PGM Resources. Prepared a Biological Assessment for the bald eagle, peregrine falcon, and grizzly bear for the East Boulder Mine Project in Montana.

Clean Water Act (Wetlands)

- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Lovell-Emblem highway reconstruction project and staging area near Lovell, Wyoming. Prepared technical report.
- 2000 Carter-Burgess and Montana Department of Transportation. Conducted a wetland delineation and function/value assessment for a highway reconstruction project near Libby, Montana. Included as part of a Biological Resources Report.

- 2000 Robert Peccia and Associates and Montana Department of Transportation. Conducted a wetland delineation and function/value assessment for a highway reconstruction project near Broadus, Montana. Included as part of a Biological Resources Report.
- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Highway 130 reconstruction project and the North Platte River mitigation site near Saratoga, Wyoming. Prepared technical report.
- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Pfisterer-Dell Creek highway reconstruction project near Bondurant, Wyoming. Prepared technical report.
- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Cody to Powell highway reconstruction project. Prepared technical report.
- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Fort Bridger to Lyman highway reconstruction project. Prepared technical report.
- 2000 Wyoming Department of Transportation. Conducted a wetland delineation for the Lyman North Connector highway reconstruction project and the Lyman Rest Area wetland mitigation site. Prepared technical report.
- 1999, 2000 City of Buffalo, Wyoming. Assisted with wetland monitoring at a mitigation site in Buffalo, WY. Monitoring tasks included gathering of quantitative vegetative data to compare with permit stipulations.
- 1999, 2000 Wyoming Department of Transportation. Assisted with wetland monitoring at mitigation site near Cody, WY. Monitoring tasks included gathering of quantitative vegetative data to compare with permit stipulations.
- 1994 Colorado River Water Conservation District. Assisted with wetlands monitoring at the Wolford Mountain Reservoir mitigation site.
- 1993-1994 Central Utah Project. Mapped and described wetlands in Heber Valley, Utah to provide a baseline for an EIS, Fish and Wildlife Coordination Act Report, and Section 404 permit. In addition, identified areas where wetlands could be restored or improved as mitigation for potential impacts. The project consisted of mapping wetlands based on infrared aerial photography and other available data, followed by field verification of the map and a wetlands functional assessment. Complexities involved in this project included current and historical irrigation of the valley and areas with high organic content soils.
- 1992 City of Lenexa, Kansas. Conducted a preliminary wetlands assessment for the proposed Prairie Star Parkway in eastern Kansas. Identified potential jurisdictional wetlands in the field, and mapped and described the wetlands in an EA-type document. Described potential impacts and provided recommendations for further action.
- 1991 Kiewit Western. Assisted with the field delineation of a man-made wetland at a 5-acre site along the South Platte River in Colorado. The delineation was conducted in accordance with the Army Corps of Engineers Wetlands Delineation Manual (1987).
- 1992 Colorado Department of Highways. Assisted with one wetlands delineation and conducted another for two sites along the South Platte River in urban Colorado. Both projects were road improvement projects at the river crossing and involved small linear wetland areas along the river edge. Brief Wetlands Finding Reports were prepared for these projects.

Environmental Permitting

- 2000 Energy Northwest. Prepared threatened and endangered species section of a permit application for a wind power project in Washington.
- 2000 URS Greiner Woodward-Clyde. Prepared Biological Evaluation and Wildlife Specialist Report for the U.S. Forest Service to obtain Special Use Permits for an access road and transmission line in Wyoming.
- 1999 Western Wireless Communications. Obtained amendments to Forest Service and BLM right-of-way permits for cellular communications sites in Wyoming and Colorado.

- 1998 Williams Energy Services. Prepared BLM application for right-of-way permit for a refined petroleum products pipeline in Utah.
- 1992 Confidential client. Conducted a permit reconnaissance for development of an underground mine in Nevada including federal, state, and local permits.
- 1990 Cimarron Chemical Inc. Conducted a permit reconnaissance for a cogeneration facility in Colorado, including federal, state, and local permits.

Biological Surveys and Research

- 2000 ThermoRetec Corporation. Conducted baseline terrestrial biotic surveys for the BP Amoco former refinery site near Casper, Wyoming. Surveys included quantitative vegetation and bird surveys on-site and at a reference site; other wildlife observations were noted.
- 1999 Wyoming Department of Transportation. Conducted a rare plant survey for an experimental snow sail project in Teton County. Prepared technical report.
- 1999 Wyoming Water Development Commission. Conducted a vegetation survey using the line intercept method to document baseline riparian and upland conditions at a proposed reservoir site.
- 1999 Wyoming Department of Transportation. Conducted a rare plant survey for snow fence repair and construction projects in Fremont County. Prepared technical report.
- 1999 Platte River Cooperative Agreement. Prepared a comprehensive literature review on habitat management methods for whooping cranes, least terns, and piping plovers.
- 1998-1999 Williams Energy Services. Prepared *Workplan for Biological Surveys*, which described required biological surveys and methods for a proposed pipeline project in Utah. Required extensive coordination with numerous government agencies.
- 1998 Williams Energy Services. Assisted with a rare plant survey for federally-listed threatened and endangered species, and BLM and Forest Service sensitive species for a pipeline project in Utah.
- 1993 Central Utah Project. Conducted a riparian survey/assessment, in conjunction with an aquatic biologist, following USDA Forest Service guidelines in Heber Valley, to provide a baseline on fisheries habitat quality for an EIS. Performed field work, data compilation, and report preparation.
- 1991 Newmont Gold. Conducted an inventory of spring-fed wetland/riparian areas in the vicinity of a large pit mine in Nevada. The springs were believed to be hydrologically connected to the water in the pit and the inventory was used in part of a mitigation plan for proposed dewatering of the pit.
- 1992 Colorado Air National Guard, Buckley Air National Guard Base. Prepared a vegetation map using aerial photo interpretation and field verification for a pronghorn antelope study. Also, assisted in the identification of management alternatives for the pronghorn herd.
- 1990 U.S. Ecology. Assisted in a baseline vegetation study for an environmental technical report for a low-level nuclear waste disposal facility in Nebraska. The assignment included a plant species survey (including a survey for threatened and endangered species) and a qualitative/quantitative evaluation of cover and productivity in several plant community types. Additional duties included data reduction and land use and vegetation mapping.

Ecological Risk Assessment

- 1994 Kennecott Utah Copper. Served as a team leader for screening level field studies for an ecological risk assessment at a large pit mine in Utah. Collected soil and vegetation samples for chemical analysis and characterized vegetation using the Releve' method. Responsible for field crew and samples in a semi-remote location.
- 1994 U.S. Air Force. Assisted with preparation of ecological risk assessments at two long-range radar stations in Alaska. Assisted with exposure assessment, ecological effects assessments, and risk characterization.
- 1993 Petrochem/Ecotek. Conducted ecological observations and sampling at an industrial site and several reference sites in urban Utah to determine possible chemical exposure pathways to the peregrine falcon and other raptors, and to determine if chemical concentrations in biota at the site were greater than other similar industrial areas. The project included a vegetation survey; habitat assessment;

- description of the location, activities, and behavior patterns of animals on-site; collection of vegetation, bird, and small mammal tissue for analysis; and report preparation.
- 1993 Mountain Home Air Force Base. Assisted with the preparation of the ecological risk assessment portion of a Remedial Investigation conducted at Mountain Home Air Force Base in Idaho. The project entailed quantitative assessment of potential hazards to waterfowl, raptors, and other wildlife from exposure to pesticides, PCBs, and metals in wastewater lagoons. Specific assignments included describing the ecology of the site, compiling and researching chemical and ecological data, and preparing toxicological profiles.
- 1993 Asarco. Served as a team member conducting ecotoxicological field investigations for a Terrestrial Ecological Evaluation at a CERCLA (Superfund) mine site in Colorado. Collected vegetation, small mammal, and bird samples for chemical analysis.
- 1993 SF Phosphates. Described the ecological setting and conducted research on a key receptor species (antelope) for an ecological risk assessment project in Wyoming.
- 1992 Dyess Air Force Base. Assisted with the preparation of an ecological risk assessment at several surface water management units at Dyess Air Force Base in Texas. Assisted with toxicity research and risk characterization.
- 1992 Echo Bay. Assisted with a duckling bioassay to determine potential acute toxicity from exposure to water and sediments from a mine tailing pond in Nevada.
- 1993-1993 New York City. Assisted with the preparation of an ecological risk assessment for a remedial investigation conducted at a landfill site in New York City. The project included a qualitative assessment of both estuarine and terrestrial ecosystems. Prepared ecotoxicological profiles and data summaries.
- 1992-1994 Cannon Air Force Base. Assisted with the preparation of an ecological risk assessment at several surface water management units at Cannon Air Force Base in New Mexico. Assisted with toxicity research and risk characterization.

SELECTED TECHNICAL REPORTS

- Young, D., E. Lack, and R. Good. 2000. Revised Biological Resources Report, Swamp Creek East. Tech. report prepared for Carter-Burgess and Montana Department of Transportation.
- Johnson, G. and E. Lack. 2000. Baseline Terrestrial Biotic Survey. BP Amoco Properties – Casper. Tech. report prepared for Thermo-Retec Corporation.
- Young, D. and E. Lack. 2000. Biological Resources Report, Epsie NHS Corridor Projects. Tech. report prepared for Robert Peccia and Associates and Montana Department of Transportation.
- Lack, E. and G. Johnson. 2000. Biological Assessment, Biological Evaluation, and Wildlife Specialist Report Two Elk Coal-Fired Steam Electric Generation Plant and Associated Access Road and Transmission Line. Tech. report prepared for URS Greiner Woodward Clyde.
- Lack, E. and D. Young. 1999. Field review and biological evaluation for threatened, endangered, and U.S. Forest Service sensitive species, State Highway 28 (Lander – South Pass) and U.S. Highway 287 (Sweetwater Station) snowfence projects. Tech. report prepared for Wyoming Department of Transportation and Shoshone National Forest.
- Lack, E., G. Johnson, and D. Young. 1999. Sensitive plant survey for Wyoming Department of Transportation snow sail project, Teton County. Tech. report prepared for Wyoming Department of Transportation and Bridger-Teton National Forest.

- Derby, C., E. Lack, and D. Strickland. 1999. Draft - Habitat management methods for least terns, piping plovers, and whooping cranes. Tech. report prepared for Habitat Criteria Subcommittee, Land Committee, Governance Committee, Proposed Platte River Recovery Implementation Plan.
- Johnson, G. and E. Lack. 1999. Wetland monitoring results and recommendations: Cody to Yellowstone wetland mitigation sites. Tech. report prepared for Wyoming Department of Transportation.
- Johnson, G. and E. Lack. 1999. Riparian and upland vegetation monitoring for the High Savery Reservoir Mitigation and Monitoring Plan. Tech. report prepared for Wyoming Water Development Commission.